



MISSOURI BOTANICAL GARDEN  
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GEORGE ENGELMANN  
BOTANICAL NOTEBOOKS

*Pagination Note:*

*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

*Isobryonia* Hook. Fl. Bor. II. 191  
*I. ensifolia* Gray O. Hall  
*Candrus* non Wickström

Hooker writes with *ensifolia* Mertensianus & *fulvata* but does not mention at all

118 *I. xiphoides*  
 Flor. Bor. II. 2. 191

TRANS. OF THE ACAD. OF SCIENCE.

745-56

interrupted descent and ascent took place from January to December, we find in 1862 some interruptions in the steps of that ladder. The electricity in February, 1862, is about four degrees higher than that of January, April somewhat higher than March, and July is the lowest instead of September in 1861. These trifling irregularities may be accounted for by differences in temperature and relative humidity, and by a greater number of thunderstorms in 1862. January of 1862, for instance, was so unusually rainy, that its relative humidity too was unusually high, diminishing thus electricity. But the general features of distribution of electricity throughout the year are apparent in both years, and we may in that respect divide the twelve months of each year into two or three groups. Computing the months which give the highest electricity and those which give the lowest in each year, we find that in both years the months of January, February, March, April, November and December exhibit the highest, and the months of May, June, July, August, September and October the lowest electricity. The first group gives

The aggregate monthly mean of 71.5 degrees of electricity in 1861 and 74.6	"	"	"	"	"
While the second group gives 29.0	"	"	"	"	"
and 25.7	"	"	"	"	"

The second group prevailed therefore in 1861, and the 1st in 1862.

*folia stipitata*  
*seem ~~to~~ appendiculate*

*baricaudus* = *Mertensianus*?



9772

WISLIZENUS—ATMOSPHERIC ELECTRICITY. 117

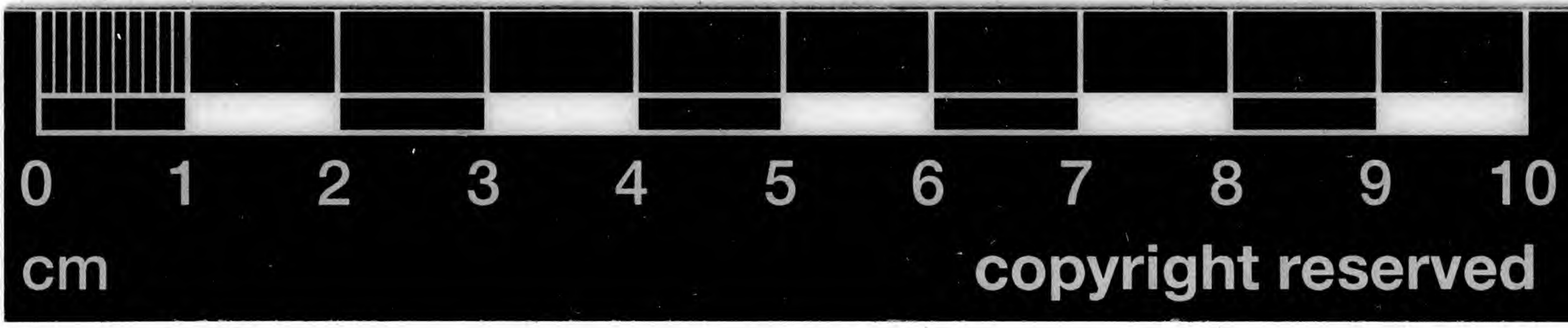
VI. The appearance of negative electricity was connected in

1861. No. times.	1862. No. times.	
30	32	with thunderstorms.
23	28	with rains without thunder and lightning.
20	4	with dry storms (without rain and without thun- der and lightning).
4	3	with snow.
1	0	with fog.
78	67	

VII. Relation of Rain and Snow to Electricity.

Rain without thunderstorm was accompanied

	By Positive Electri- city.		By Negative Electri- city.		By no Electricity.	
	In 1861.	In 1862.	In 1861.	In 1862.	In 1861.	In 1862.
January.....	7	5	3	2	.....	2
February.....	2	1	4	1	.....	.....

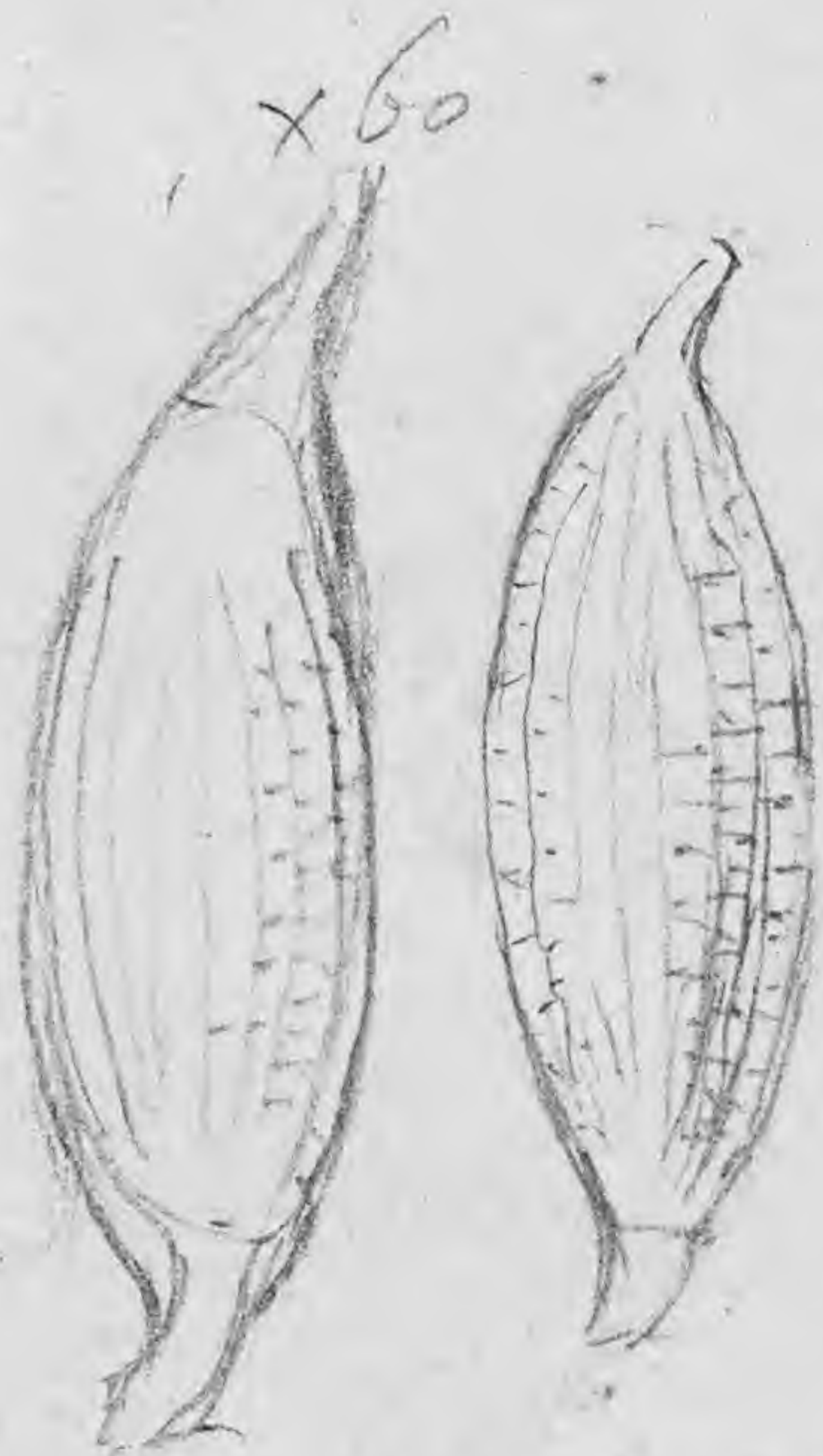


*Juncus easifolius*

Aug 15. 1865

Colorado, Hall sb

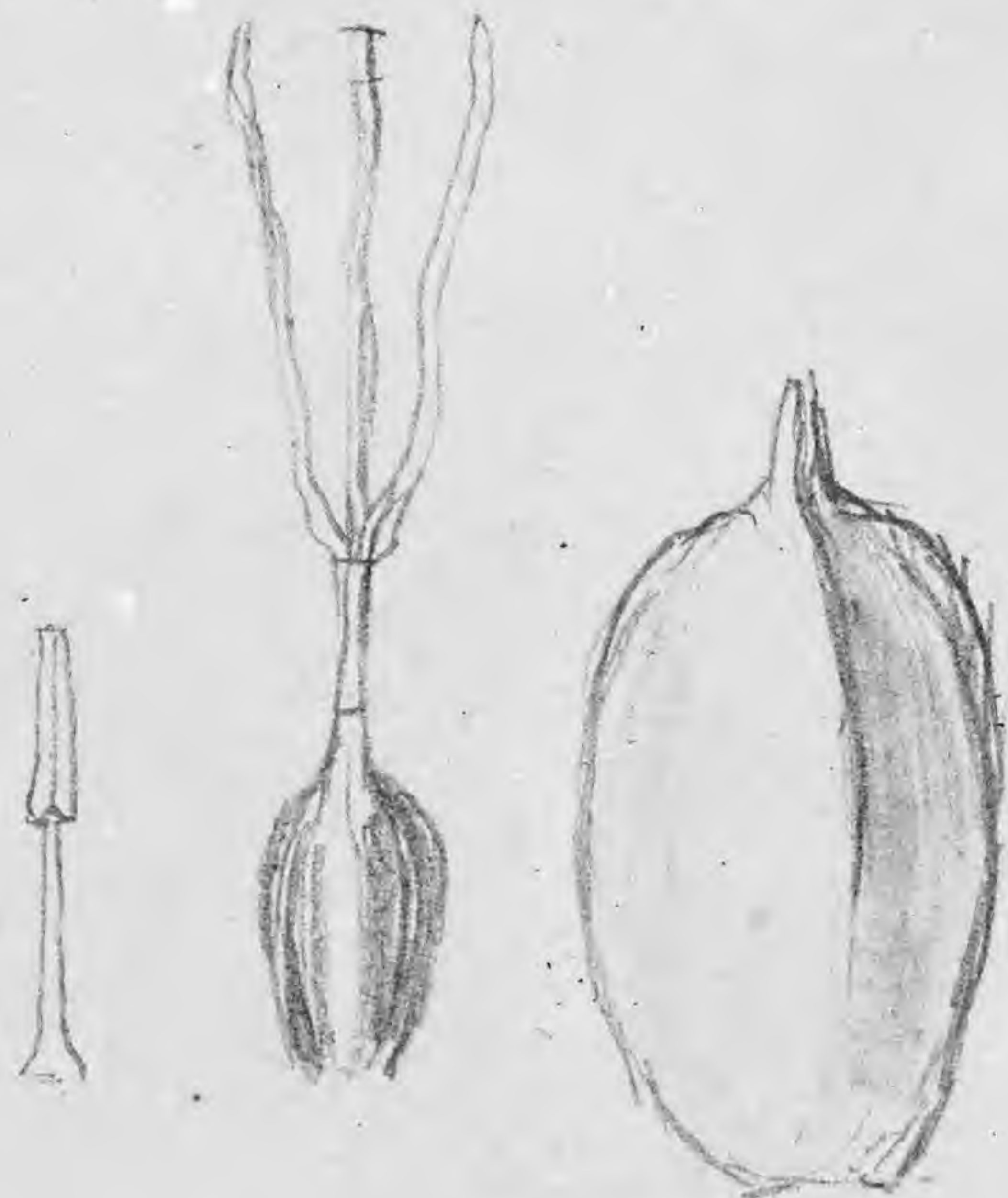
this is nothing but *xiphoides* 110!



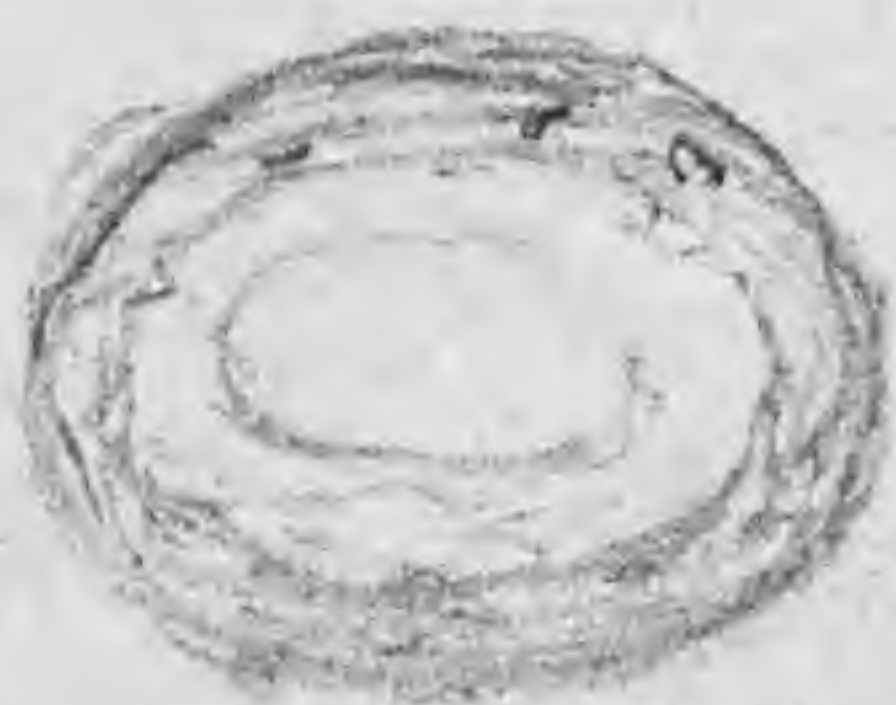
about 10 ribs



Capsule of *Juncus*  
*plenigula* *Breweri*



x10



cut of stems

*ferax* *compressus*  
*f. stulosus*



stipules very indistinct



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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*Juncus*

Aug 25 1865

Medicine Bone Mesa, Ho. Englewood, 1859

Why is this not

*Lophocorymbus*

what Thompson is only

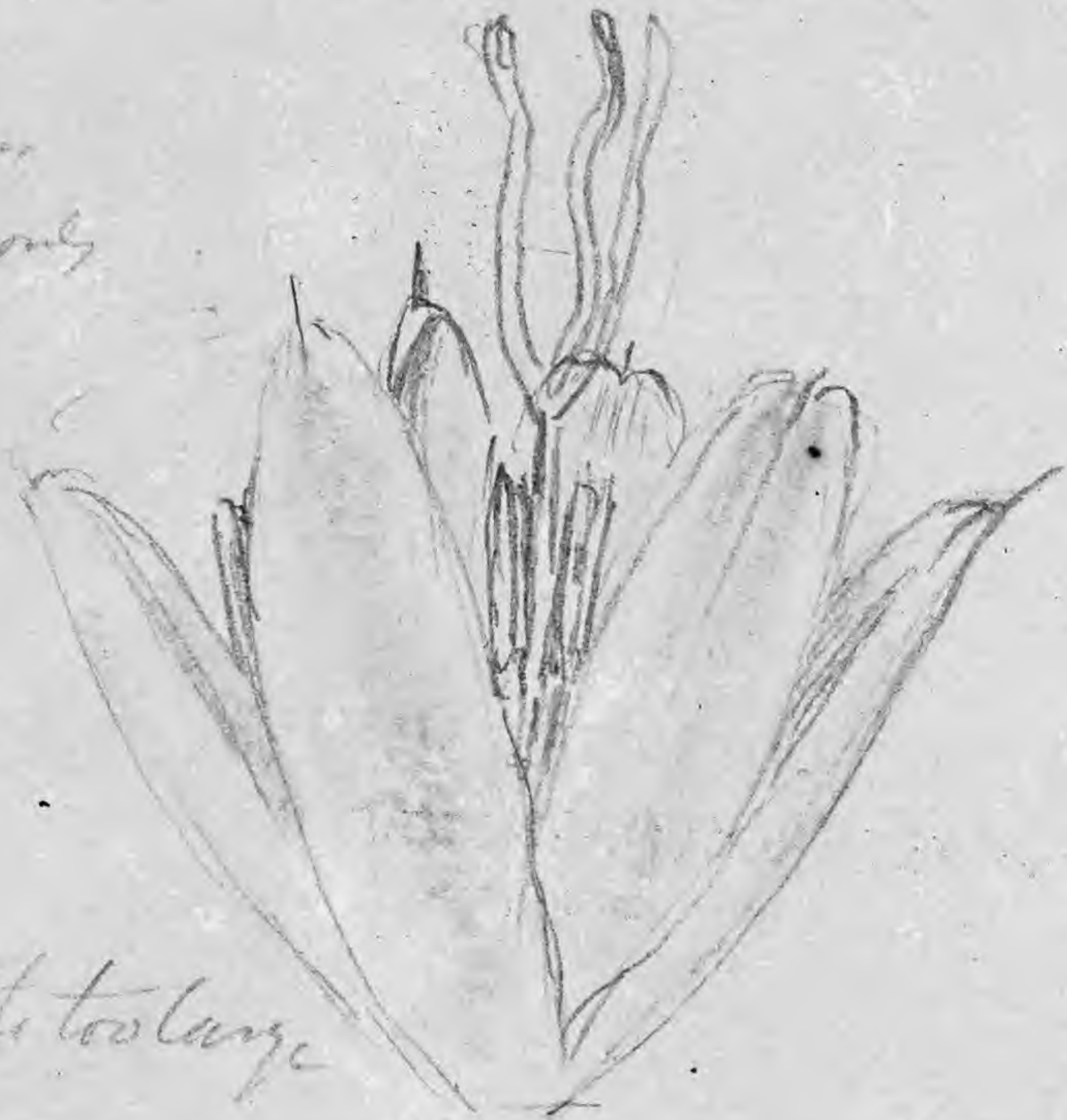
found in California

form of pistil

I rather

would describe

Dec. 1867



x10

6 little too large



inner sepals shorter, obtuse,  
emarginate, slightly cuspitate



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Linnaeus

Aug 30 1865

Celery

Bolander

Hb Hall

with Cabal

heads 3-6 flower,  
usually 4 flower

leaf x10

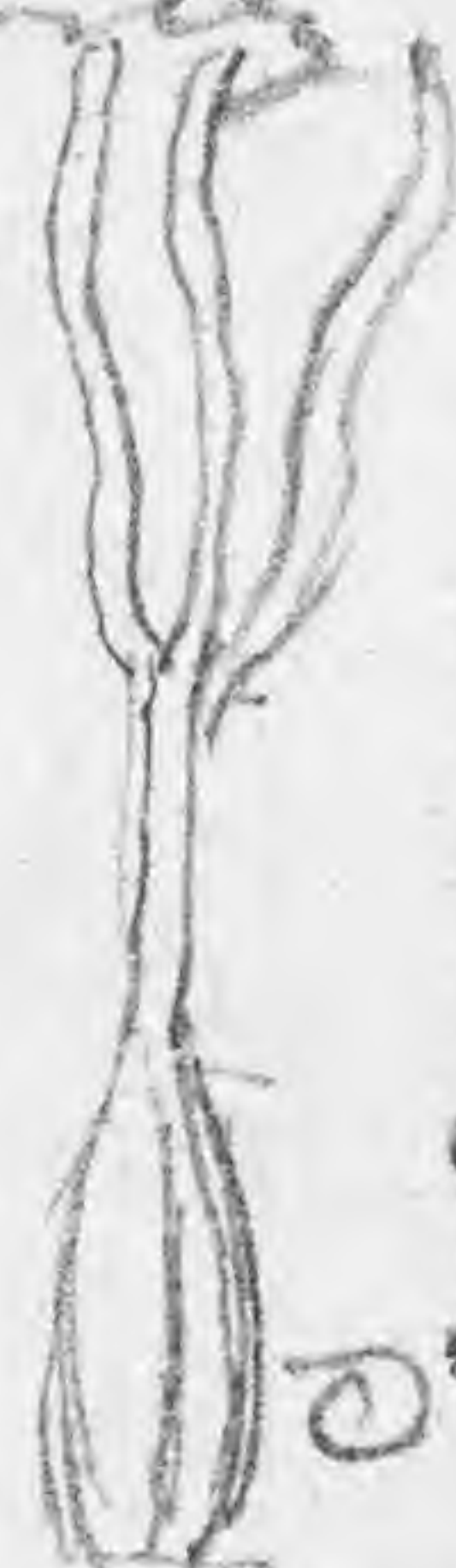
x60



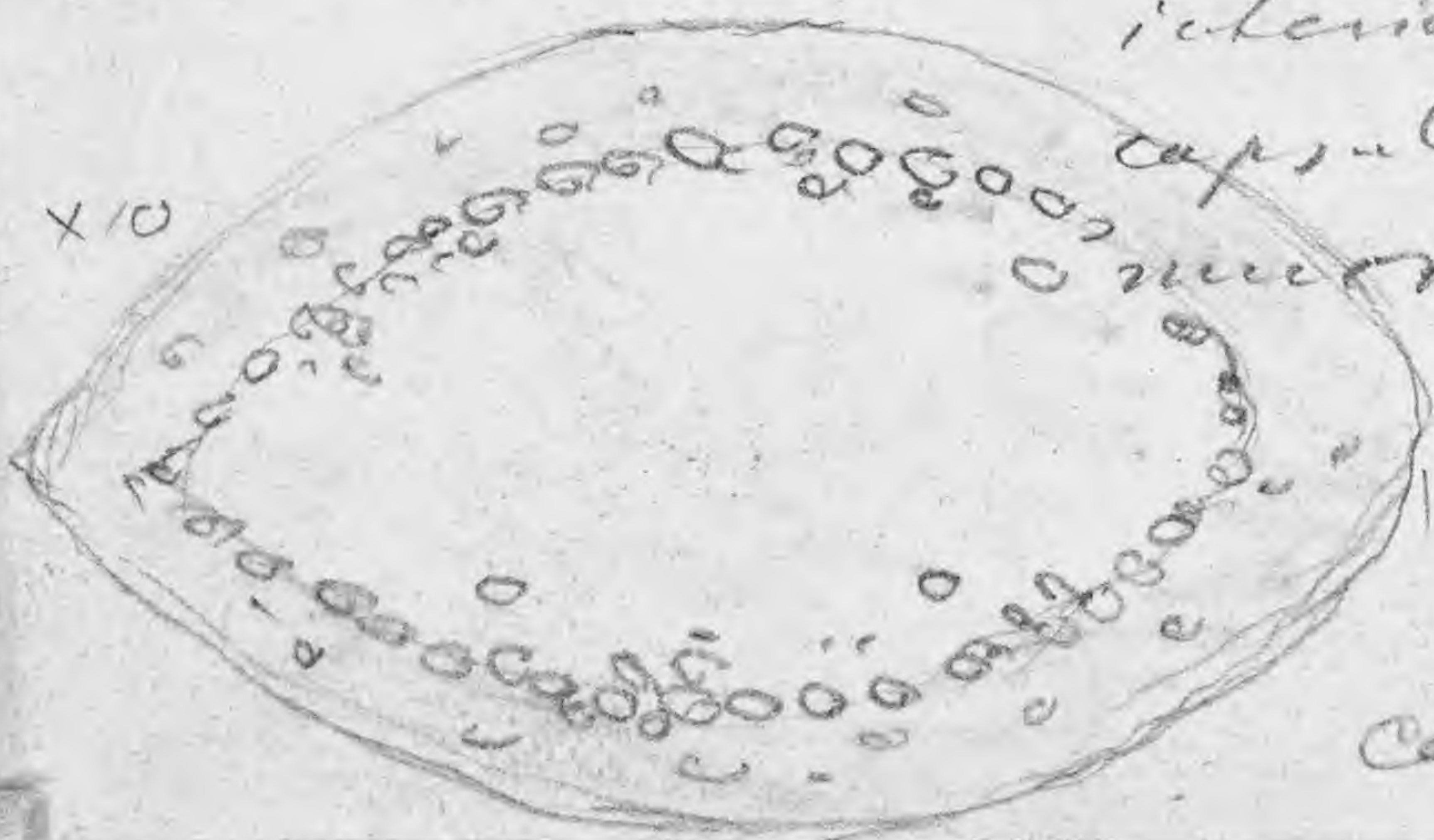
seed unripe



x10



x10



sepals exterioribus lanceolato subulatis  
 interioribus obtusiusculis mucronatis  
 capsula trigona prismatica determinata  
 mucronata calycem excedente  
 folia 6-8 mm lata anguste aristata  
 anthela supra-composita  
 caule auripiti fante - foliis latis  
 compressis irregulariter nodosis  
 leviter



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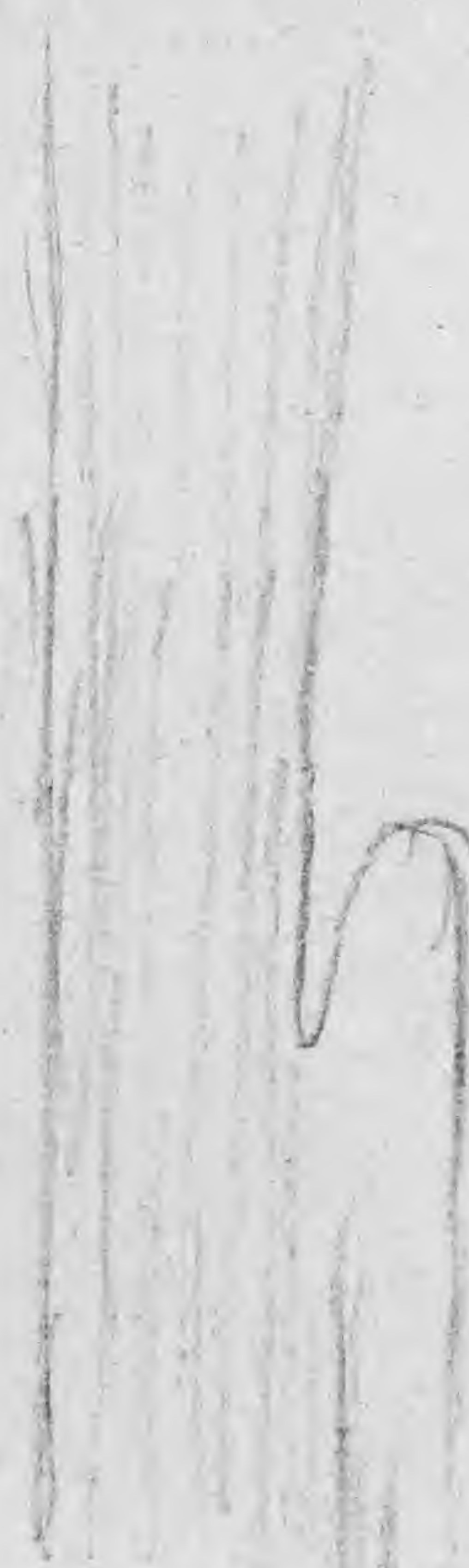
*J. ensiplicata*

Oct 18 1861

Unalakleet

Hb. Chamisso

in Hb. Gray



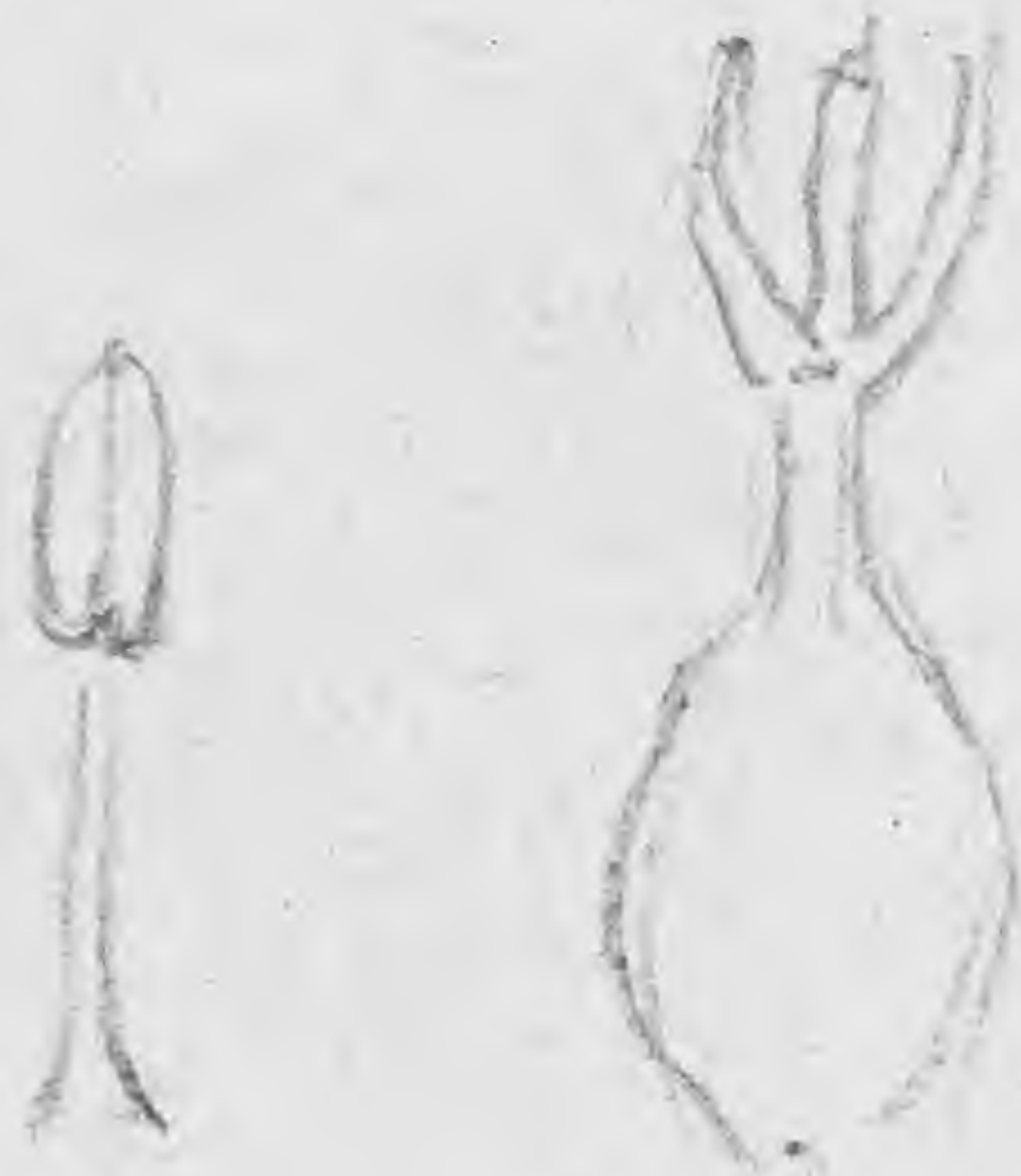
leaf with  
stipules



x10

deep brown  
blackish  
uniform

not yet in flower



side of leaf x10

Platanus verticillata



0 1 2 3 4 5 6 7 8 9 10

cm

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cm

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*Juncus ensifolius* Wikstr? |  
Unalaska A. J. Ch

Oct 18 1865

Chamisso in Herb. Gray  
ex Hb. Parlati

x60



seed not ripe  
but apparently strongly  
reticulate.



sepala aequalia  
exterius latiora  
stamini dimidia  
sepala

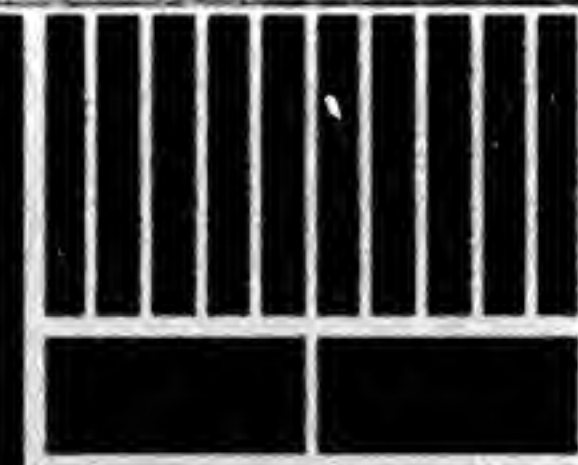


from another  
flower

six aequalia  
o. longiora



no stipules



0 1 2 3 4 5 6 7 8 9 10

cm

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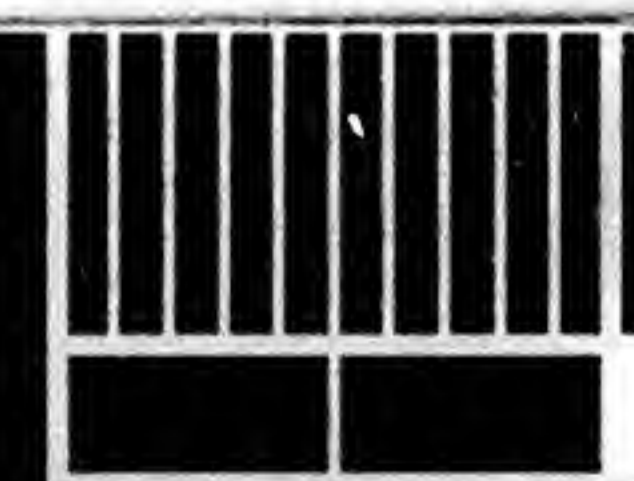
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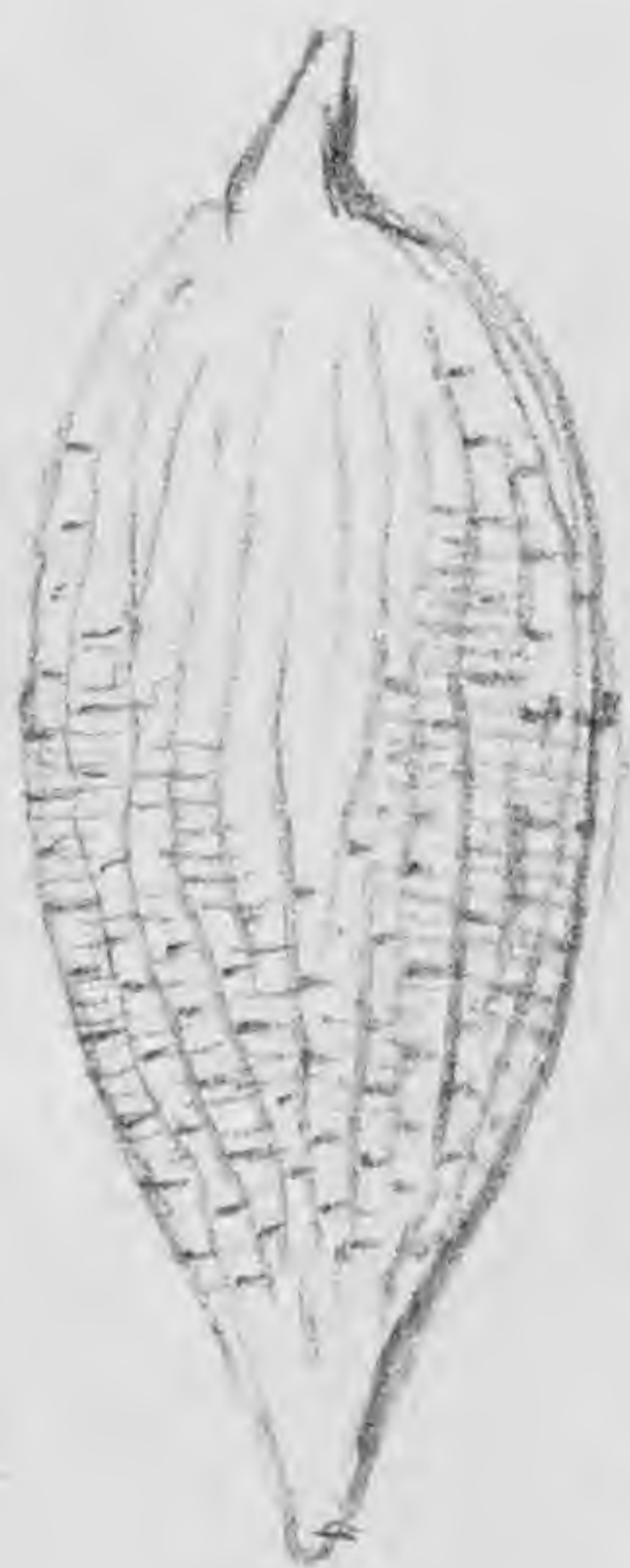
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"*J. cuspidatus*"

Oct 19 1865

Hall 565 = Hb Gray

larger paler specimen



10-11 ribs



Larger seed of any  
specimen



x10

larger stipules



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2341 *Troncus*

Jan 6 1866

*Bolander No 5*

capitula 5-8 florum  
paniculata

x10

virgini side auriculis  
sensim exsertens



sepala interiora  
sub breviora obtuse mucronata  
exteriora longiora subulata



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"*J. ensifolium*"

April 7 1866

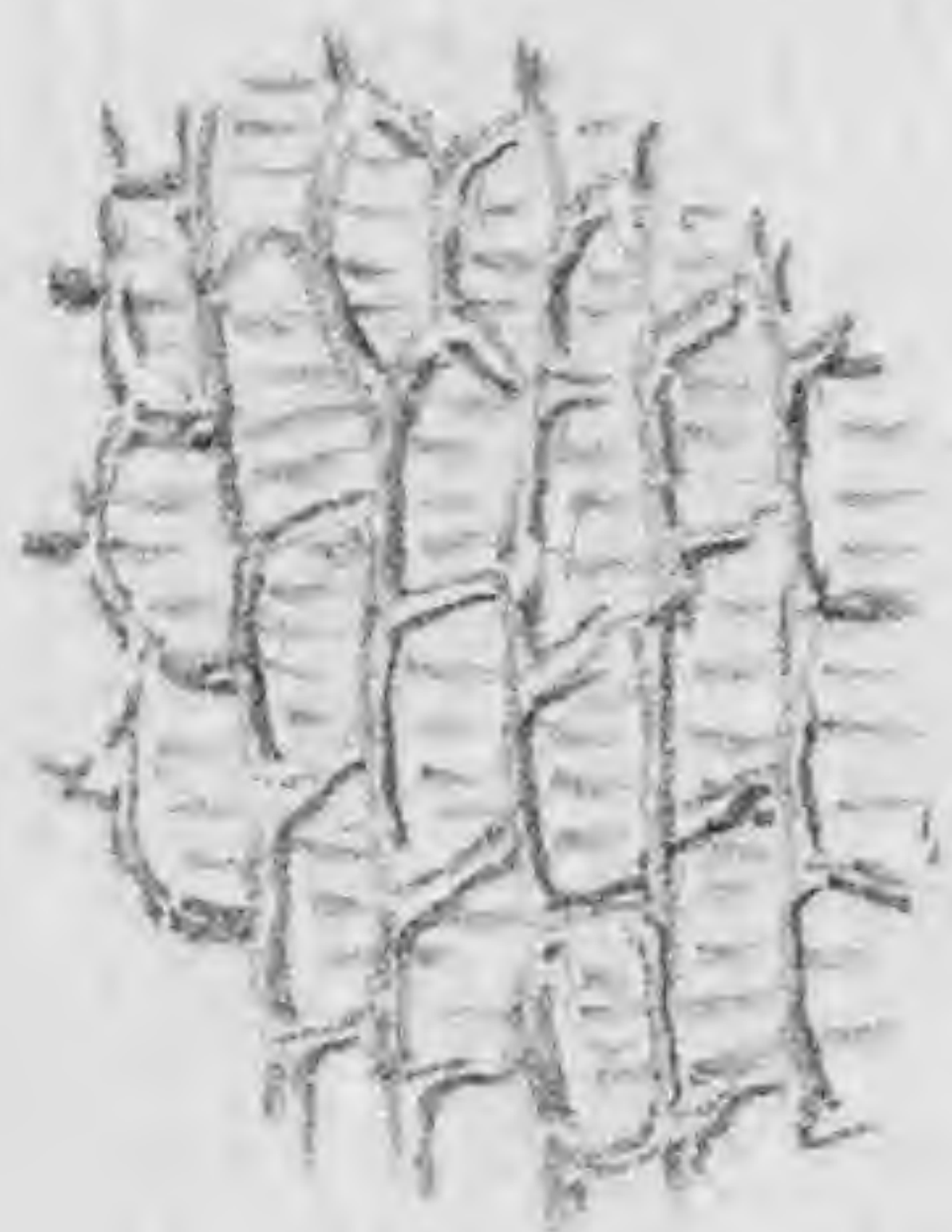
Colombia - Hall

508



x60

10-12 ribs  
visible



x150

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HERBARIUM

MISSOURI BOTANICAL GARDEN



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cm

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45. J. Mertensianus Bongt  
 = J. brevicaudus  
 Silcha, Mertens 1833

*Folia nodosa fistulosa adpressis*

742-761

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Editorial Department.



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0 1 2 3 4 5 6 7 8 9 10

cm

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ering.

*Dimensions.*—Length, 0.20 of an inch; width, 0.18.

The *Elæacrinus Kirkwoodensis* is nearly allied to *E. (Pentremites) melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

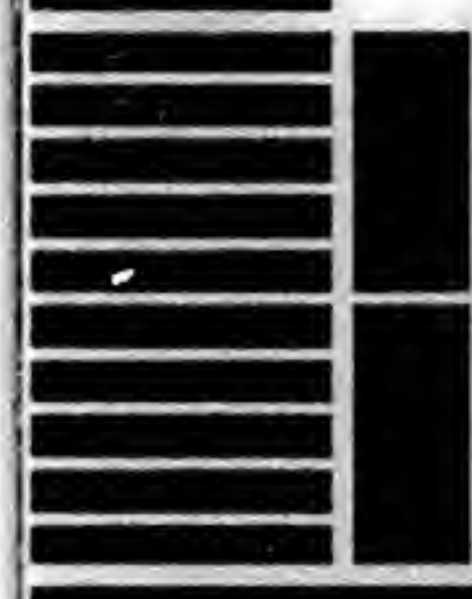
8

*Pentremites ?*

at *phacopodella spectans*

*florescence, stamens*

742-4



0 1 2 3 4 5 6 7 8 9 10

cm



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0 1 2 3 4 5 6 7 8 9 10

cm

... containing more than a few crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.

2026

*Juncus Mertensianus*

Dec 25 1867

No. 212 Huerfano Valley, toward Laguna del Cristo Pas.  
Dr. C. C. Parry Aug 1867

vaginae exsertentes

non appendiculatae



x60

6-7 ribs visible



x150



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cm

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N. 213

*Juncus Martensii*

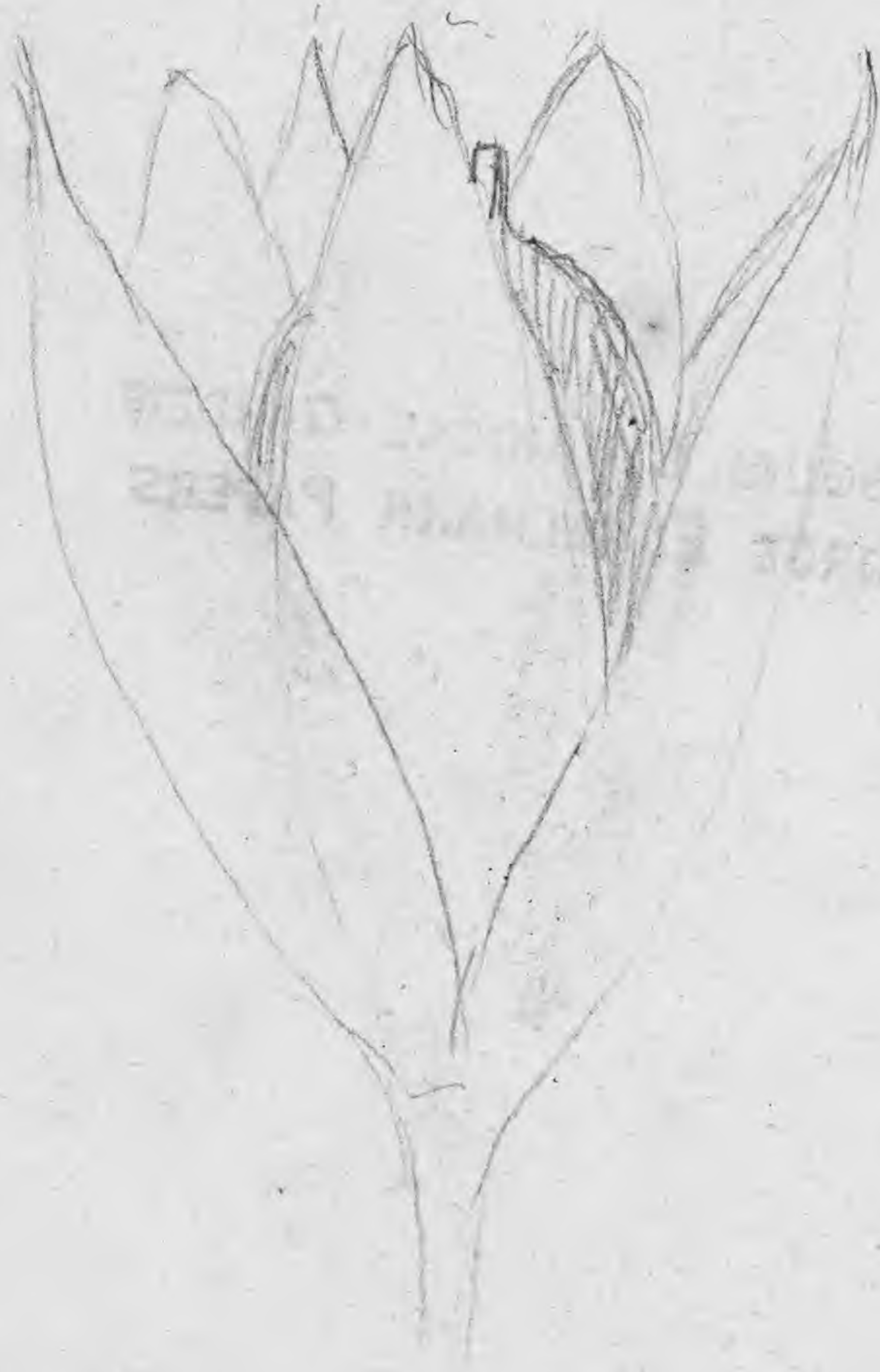
Dec 25 1867

approaching pleocarpelid

Sangre de Christo Pass

D Perry Aug 1867

x10



vegne auriculatae



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 GEORGE ENGELMANN PAPERS  
 HERBARIUM  
 GEORGE ENGELMANN PAPERS  
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6039

Hb. n. 92

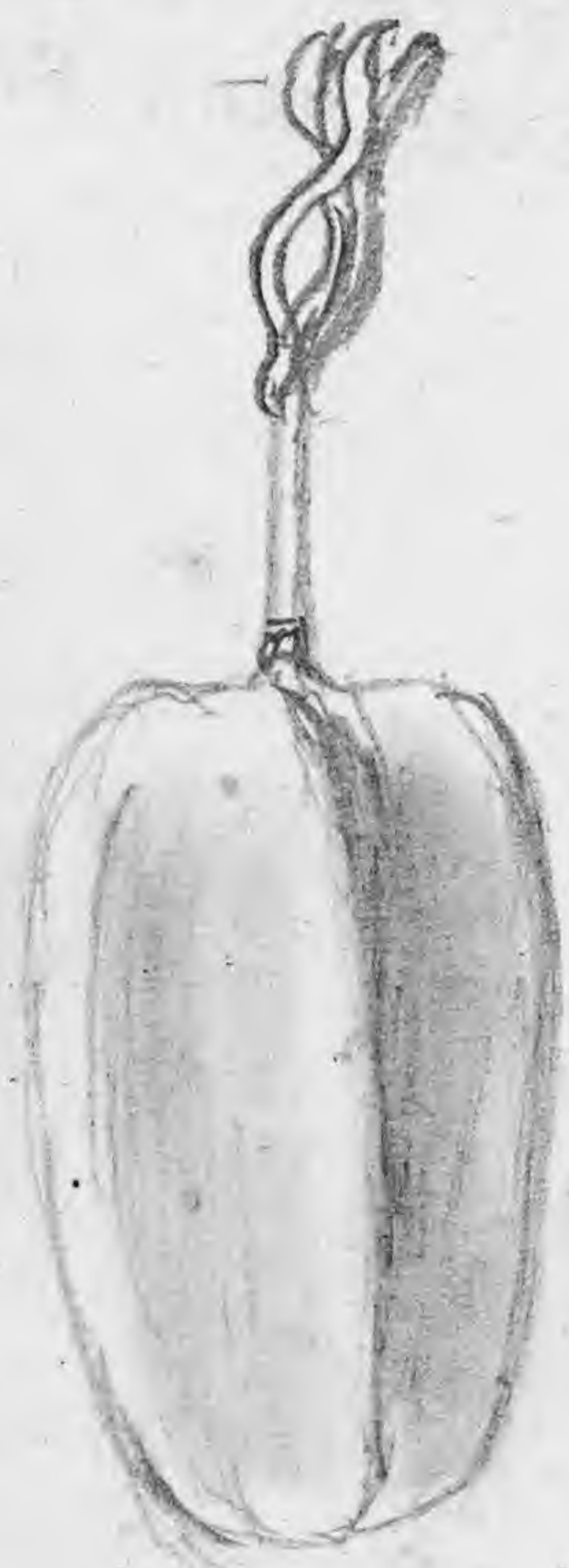
*J. Mertensiana*, Bong

July 27 1867

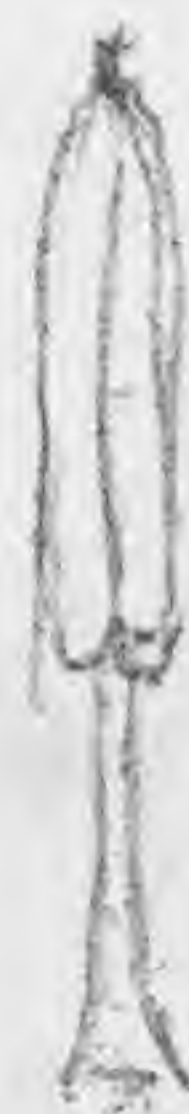
Banks of water courses, Mono pass

8000 feet high  
H. Bolander 1867

x60



x10



7-8 ribs  
lower (funicular)  
tailent short  
or long.



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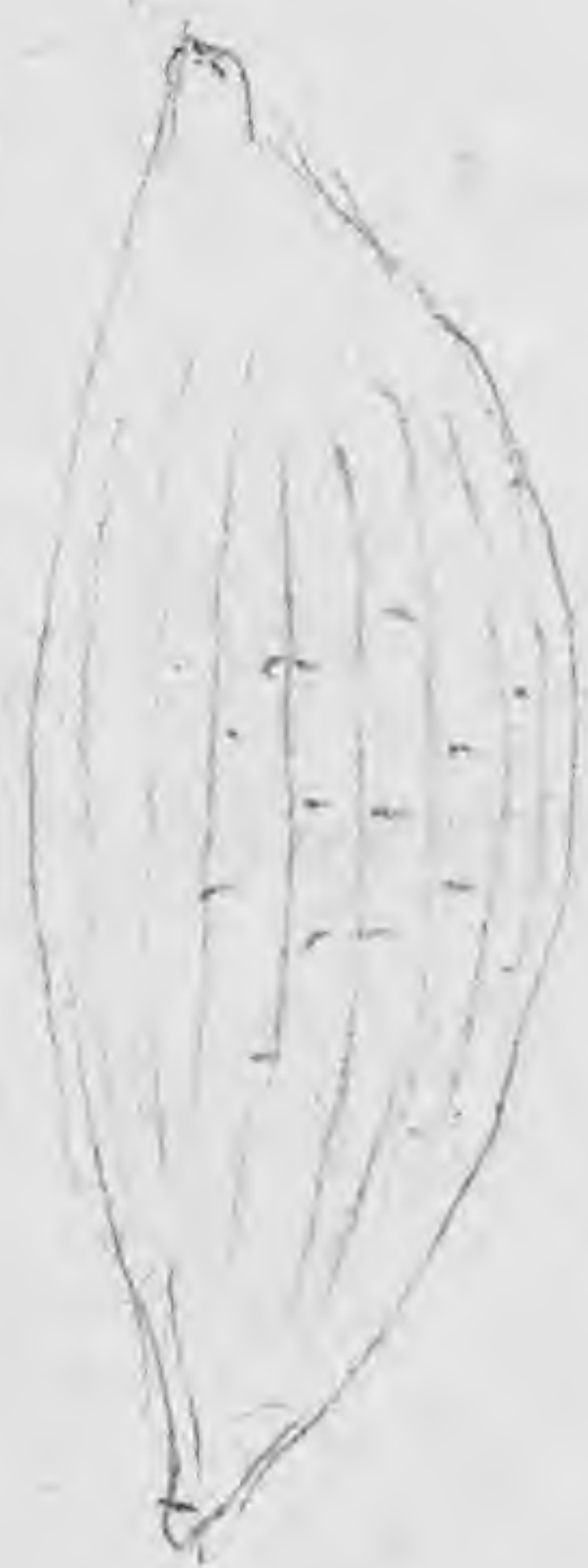
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*J. Montanensis*

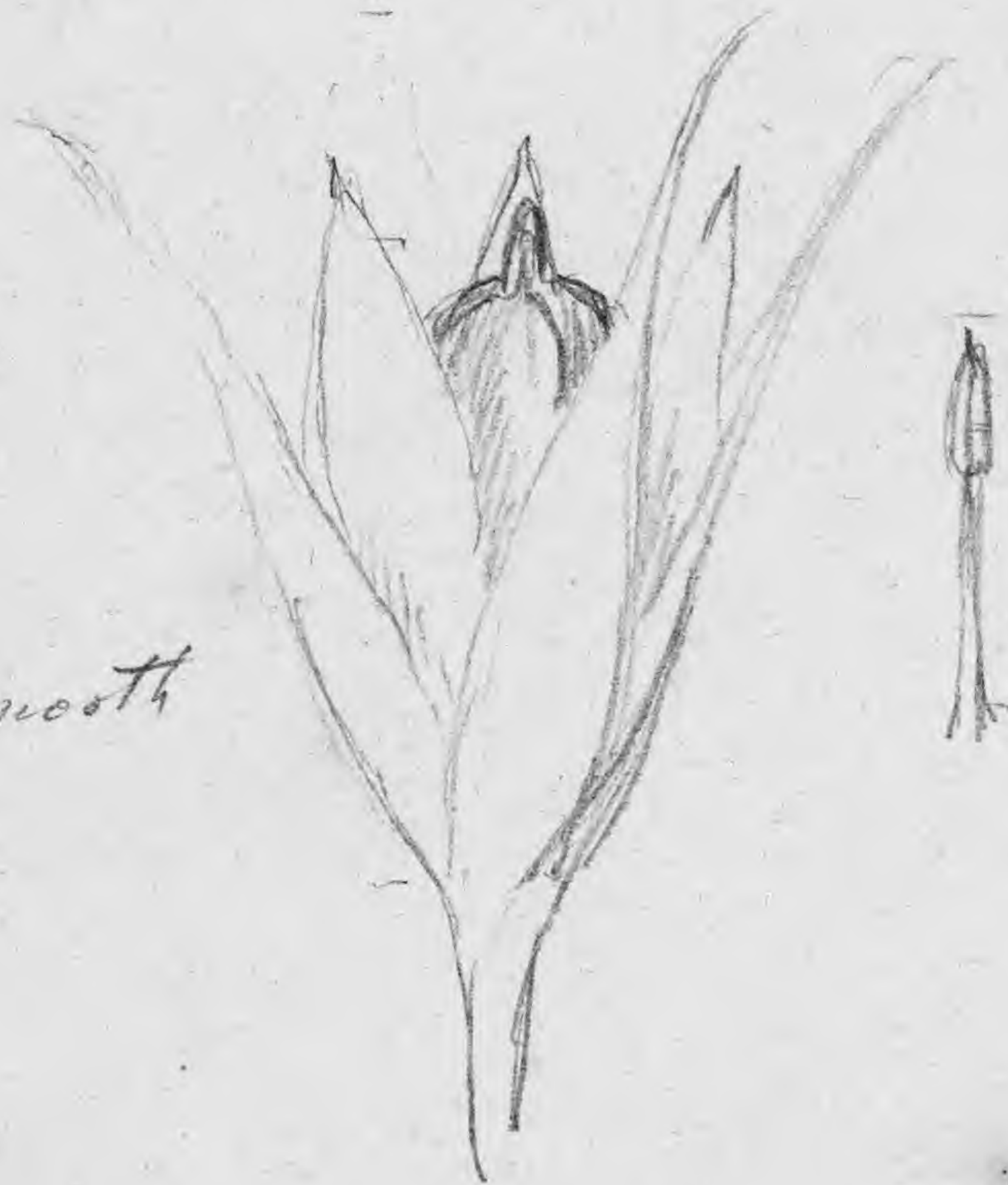
Febr 25 1852

Siberia, Merten

Herb Petrop. N. 10



about 8 ribs visible  
no cross striation, area smooth  
Seed unripe  
less tailed, than in  
other specimens



0 1 2 3 4 5 6 7 8 9 10

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*Juncus xiphioides*

Aug 29 1865

San Francisco, Bolander

H. Engelm.

heads 12-20 flowered

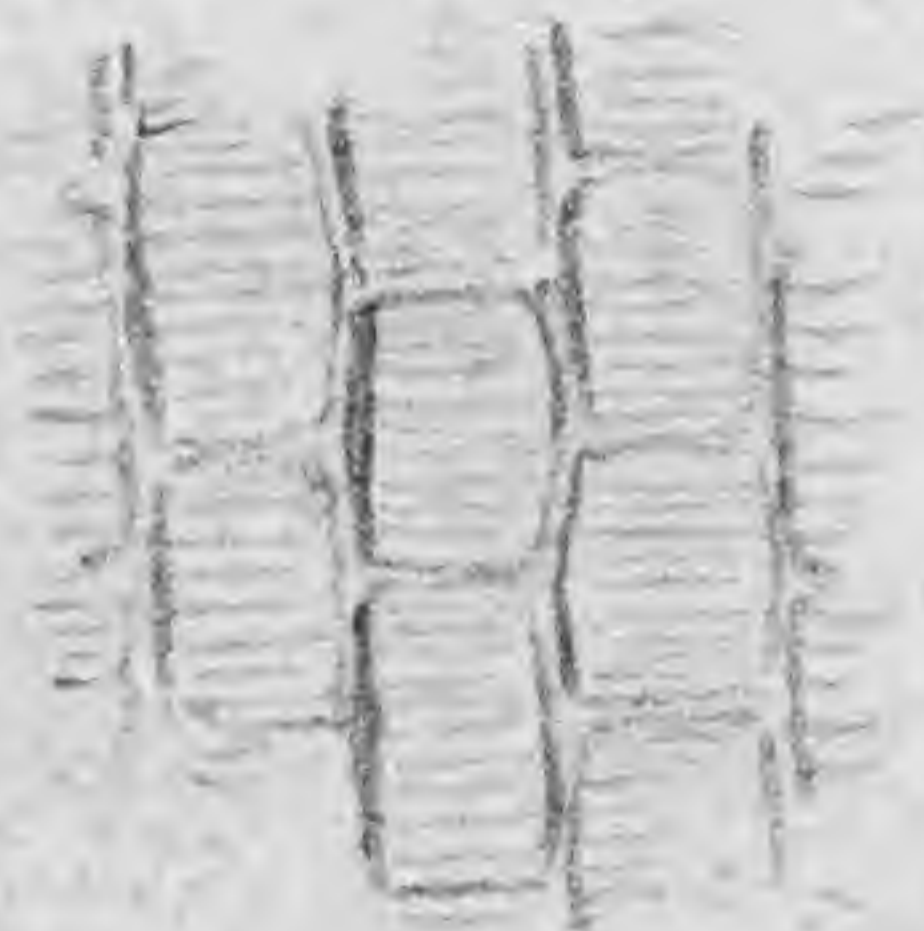
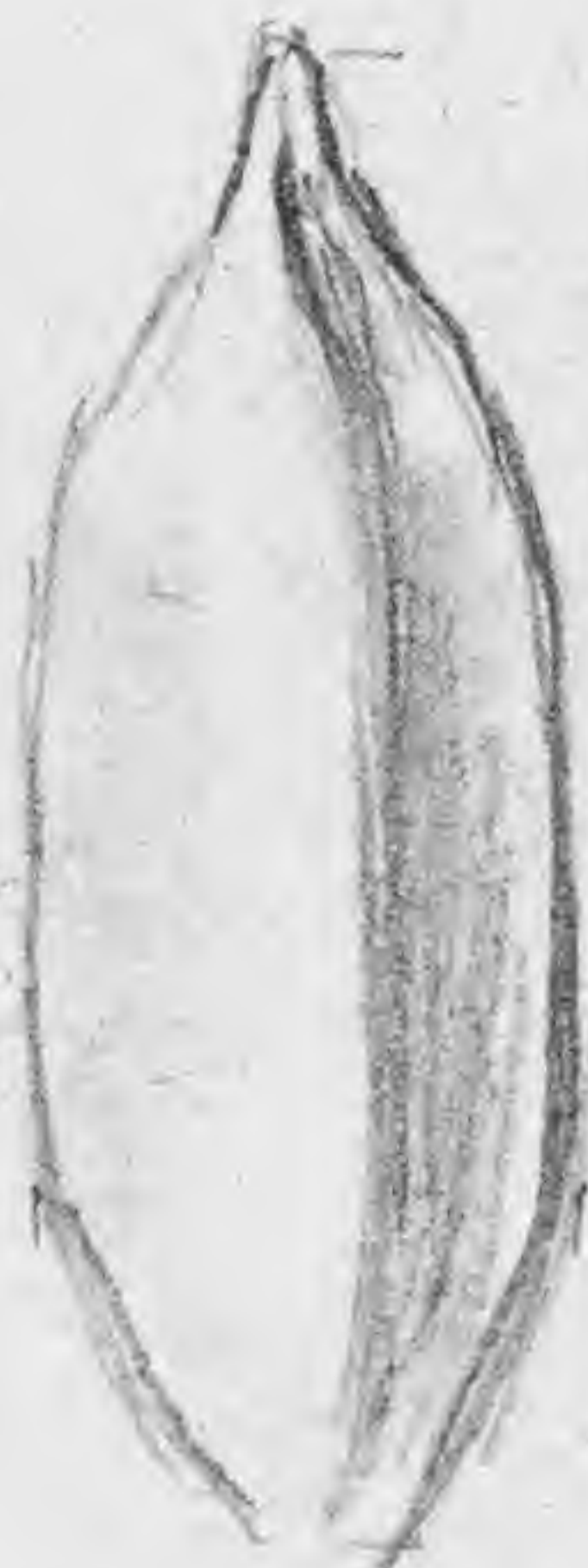
x60



seed strongly  
reticulate



each flower  
with a short  
pedicel



March 29 1866



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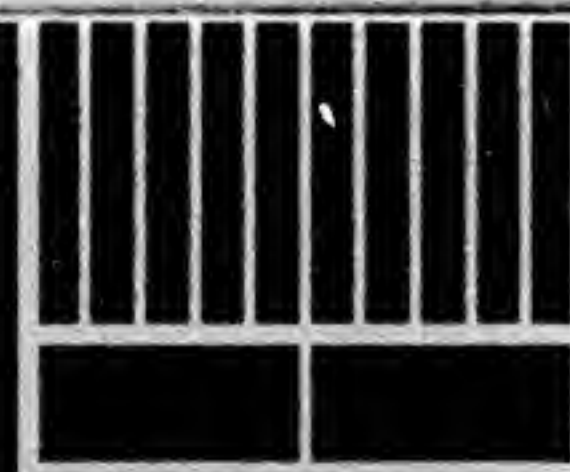
*Juncus xiphioides* Hey! Octob 20 1865-

Original specim - of Heucke, from Monterey  
Cal.

Frugula in Hb Gray  
Capitula 6-8 florum



sepala interiora  
paulo breviora  
acuta s. obtusa, ovula



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*Junonia xiphoides*

Oct 25 1865

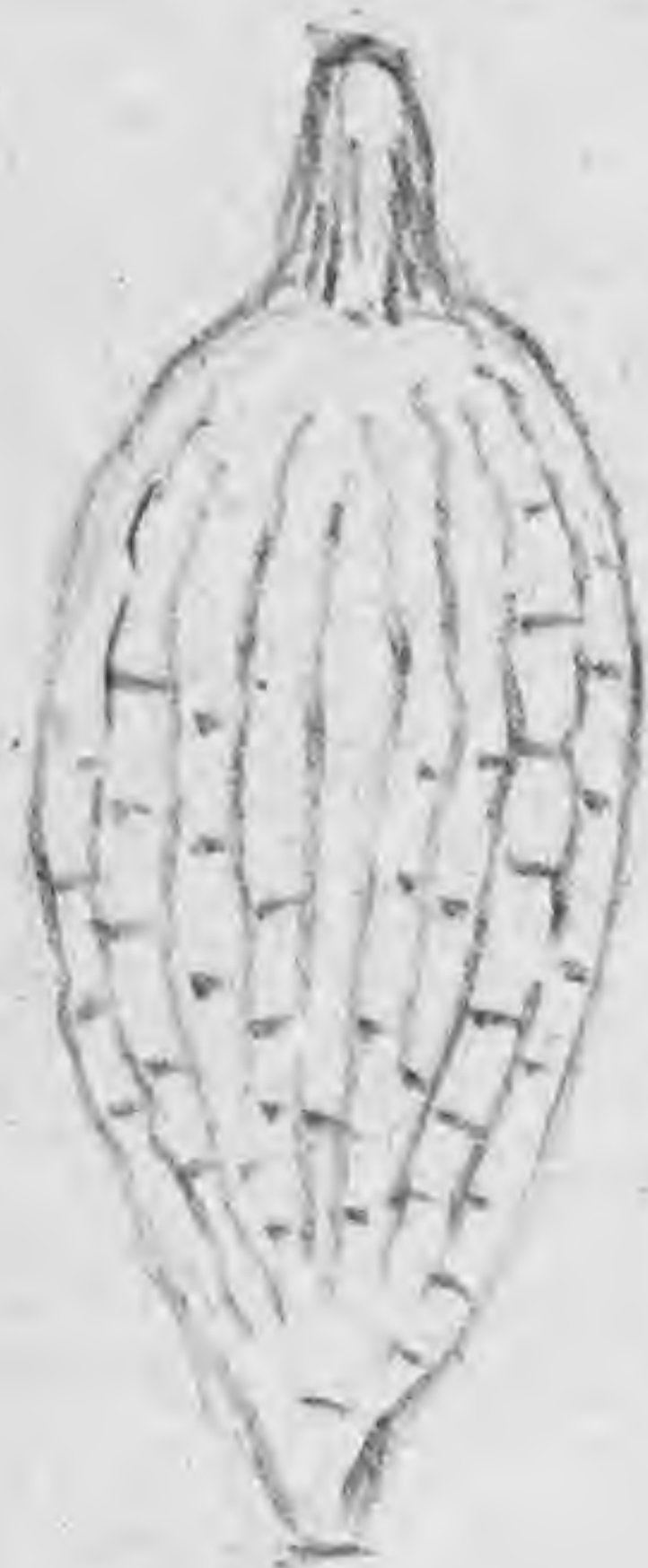
Fort Tejon Calif xanthus 1857

— Hb. Gray

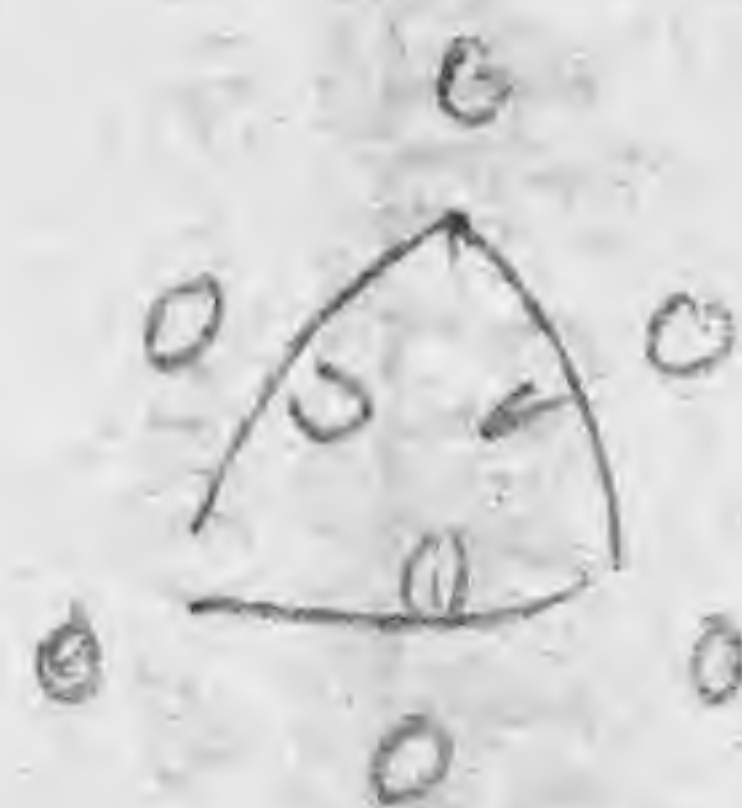
Pinna decomposita

Capitulum of 12 fls

x 60



sepals acuminate  
& lobate  
perianth long



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1159

Californ State Survey

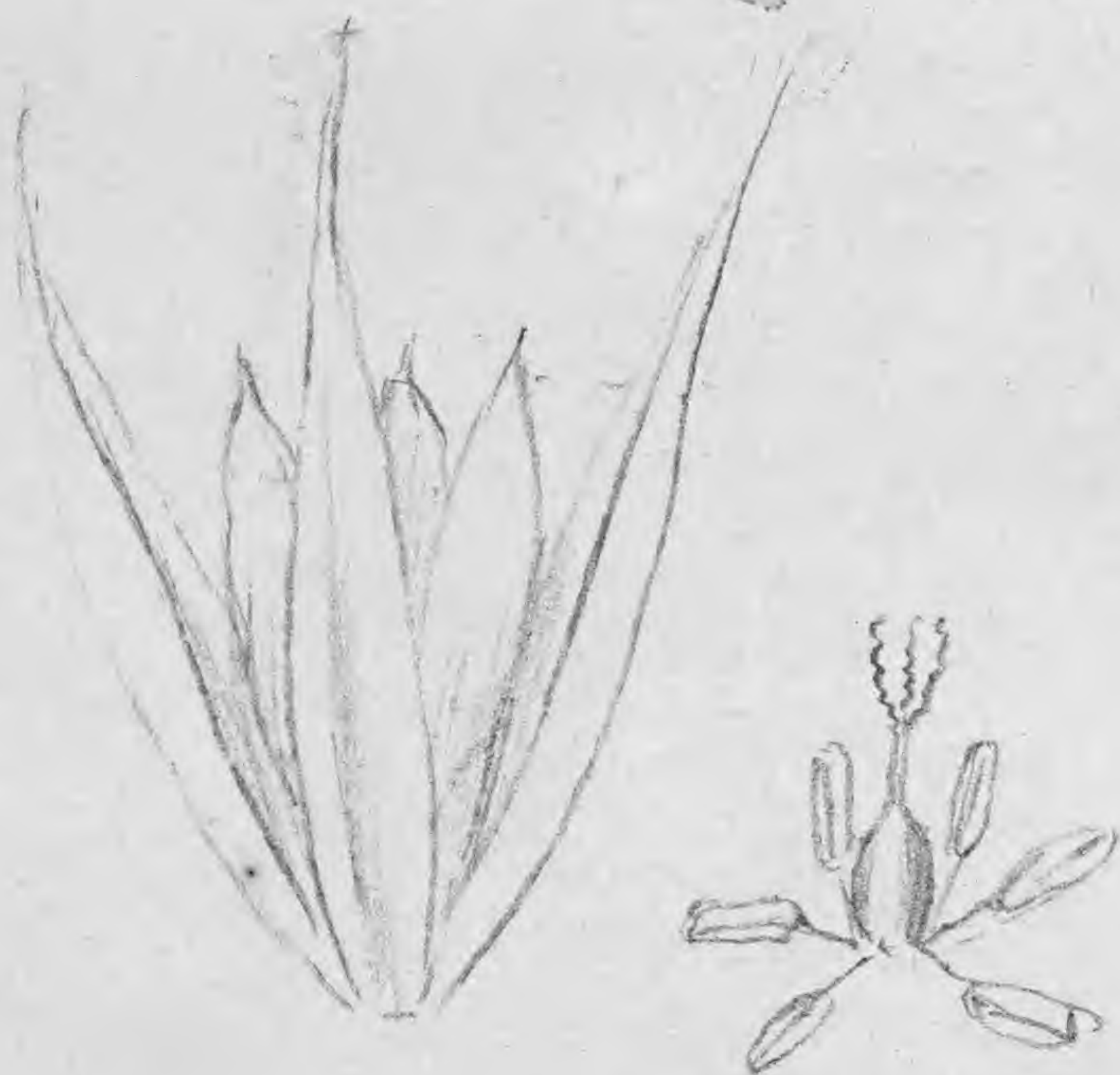
Brewer mis. 1866

*Opuntia* ?  
*Xiphodes* ?

Febr 26 1866

Monte Diablo May 1862

*indifolius*  
(*exauriculatus*)  
capitula 3 flora



long before flowering



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M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS

ST. LOUIS.

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